

10-15-01

A  
Box Sequence

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No: 27866/36470A

PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53

Box Patent Application  
Commissioner for Patents  
Washington, D.C. 20231

11000 U.S. PTO  
09/976935  
10/12/01

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Donald E. Stauton

Title: MATERIALS AND METHODS TO MODULATE LIGAND BINDING/ENZYMATIC  
ACTIVITY OF  $\alpha\beta$  PROTEINS CONTAINING AN ALLOSTERIC REGULATORY SITE

1. Type of Application

- ☒ This is a new application for a
- ☒ utility patent.
- ☐ design patent.
- ☐ This is a continuation-in-part application of prior application no.

2. Application Papers Enclosed

- 1 Title Page
- 146 Pages of Specification (excluding Claims, Abstract, Drawings & Sequence Listing)
- 8 Page(s) of Claims
- 1 Page(s) of Abstract
- 1 Sheet(s) of Drawings (Figs. 1 to 2)
- ☐ Formal
- ☒ Informal
- 7 Page(s) of Sequence Listing

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on **October 12, 2001**, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EL 564 463 415 US.

Joseph A. Williams, Jr. (Reg. No. 38,659)

**3. Declaration or Oath**

- ☐ Enclosed
- ☐ Executed by (check all applicable boxes)
  - ☐ Inventor(s)
  - ☐ Legal representative of inventor(s)  
(37 CFR 1.42 or 1.43)
  - ☐ Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached
    - ☐ The petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 are enclosed. See Item 5D below for fee.
- ☒ Not enclosed - the undersigned attorney or agent is authorized to file this application on behalf of the applicant(s). An executed declaration will follow.

**4. Small Entity Status**

- ☐ Applicant claims small entity status. See 37 CFR 1.27.
- ☐ A small entity statement is(are) attached.

**5. Additional Papers Enclosed**

- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement
- ☐ Declaration of Biological Deposit
- ☒ Computer readable copy of sequence listing containing nucleotide and/or amino acid sequence
- ☐ Microfiche computer program
- ☐ Associate Power of Attorney
- ☐ Verified translation of a non-English patent application
- ☐ An assignment of the invention
- ☐ Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)
- ☒ Return receipt postcard
- ☐ Other

6. **Priority Applications Under 35 USC 119**

Certified copies of applications from which priority under 35 USC 119(e) is claimed are listed below and

☒ is not attached.

☐ will follow.

COUNTRY	APPLICATION NO.	FILED
US	60/239,750	12 October 2000

7. **Filing Fee Calculation (37 CFR 1.16)**

A. ☒ **Utility Application**

CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT (IF ANY)						
			SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	NO. FILED	NO. EXTRA	RATE	FEE	RATE	FEE
BASIC FEE				\$370.00		\$740.00
TOTAL	49 -20	= 29	X 9 =	\$261	X 18 =	\$
INDEP.	6 - 3	= 3	X 42 =	\$126	X 84 =	\$
<input checked="" type="checkbox"/> First Presentation of Multiple Dependent Claim			+ 140 =	\$140	+ 280 =	\$
Filing Fee:				\$897	OR	\$

B. ☐ **Design Application (\$165.00/\$330.00)** Filing Fee: \$ \_\_\_\_\_

C. ☐ **Plant Application (\$255.00/\$510.00)** Filing Fee: \$ \_\_\_\_\_

D. **Other Fees**

☐ Recording Assignment [Fee -- \$40.00 per assignment] \$ \_\_\_\_\_

☐ Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached [Fee -- \$130.00] \$ \_\_\_\_\_

☐ Other \$ \_\_\_\_\_

**Total Fees Enclosed \$**

8. **Method of Payment of Fees**

- ☐ Enclosed check in the amount of: \$
- ☒ Charge Deposit Account No. 13-2855 in the amount of: \$897.00  
A copy of this Transmittal is enclosed.
- ☐ Not enclosed

9. **Deposit Account and Refund Authorization**

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 13-2855. A copy of this Transmittal is enclosed.

Please refund any overpayment to Marshall, Gerstein & Borun at the address below.

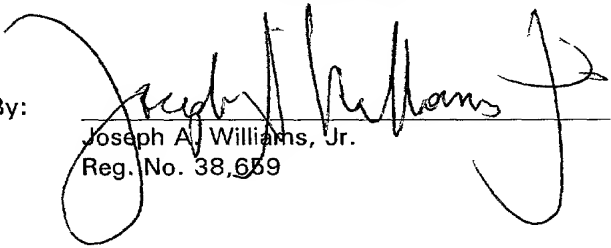
10. **Correspondence Address**

Customer No.: 04743

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN  
6300 Sears Tower  
233 South Wacker Drive  
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By:

  
Joseph A. Williams, Jr.  
Reg. No. 38,659

October 12, 2001

PATENT

Attorney Docket No: 27866/36470A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Staunton et al. ) CERTIFICATE OF MAILING BY  
 ) EXPRESS MAIL  
Application Serial No.: To be ) "EXPRESS MAIL" mailing label  
determined ) No. EL564463415US  
 )  
Filed: Herewith ) Date of Deposit: October 12, 2001  
 )  
For: MATERIALS AND METHODS TO ) I hereby certify that this paper and the  
MODULATE LIGAND ) documents referred to herein as enclosed  
BINDING/ENZYMATIC ACTIVITY ) herewith are being deposited with the  
OF ALPHA/BETA PROTEINS ) United States Postal Service "EXPRESS  
CONTAINING AN ALLOSTERIC ) MAIL POST OFFICE TO ADDRESSEE"  
REGULATORY SITE ) service under 37 C.F.R. §1.10 on the date  
indicated above and are addressed to the  
Commissioner for Patents, Washington,  
D.C. 20231.  
Group Art Unit: To be determined  
Examiner: To be assigned

STATEMENT UNDER 37 C.F.R. §1.821 and §1.825

Commissioner for Patents  
Washington, DC 20231

Sir:

I hereby state that the content of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 C.F.R. §1.821 and §1.825, respectively are the same and include no new matter.

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN

By

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October 12, 2001

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TOTAL 56534660